

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P648353

Luminaire Tested: **GALN-SA4B-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10577.5 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

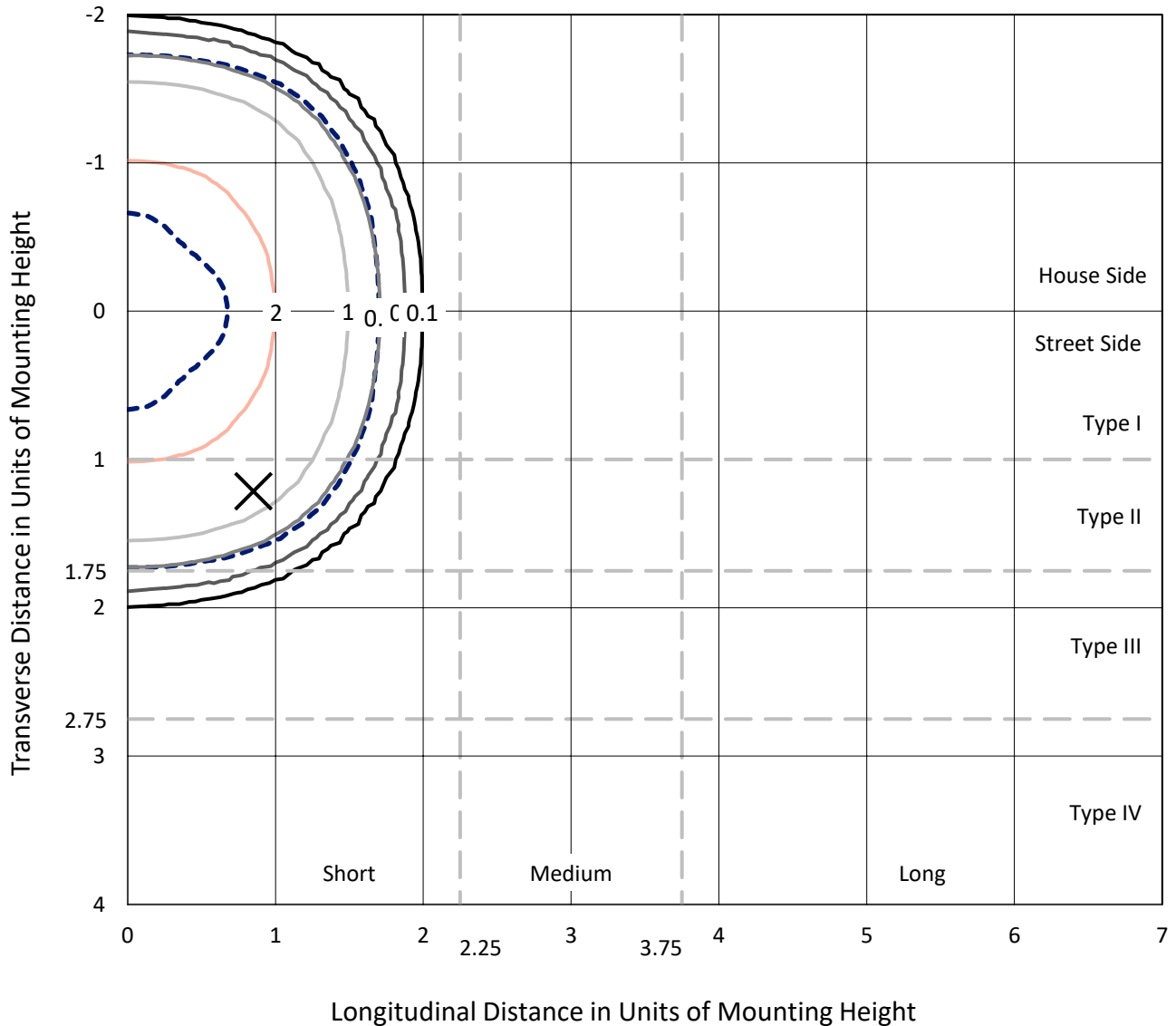
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

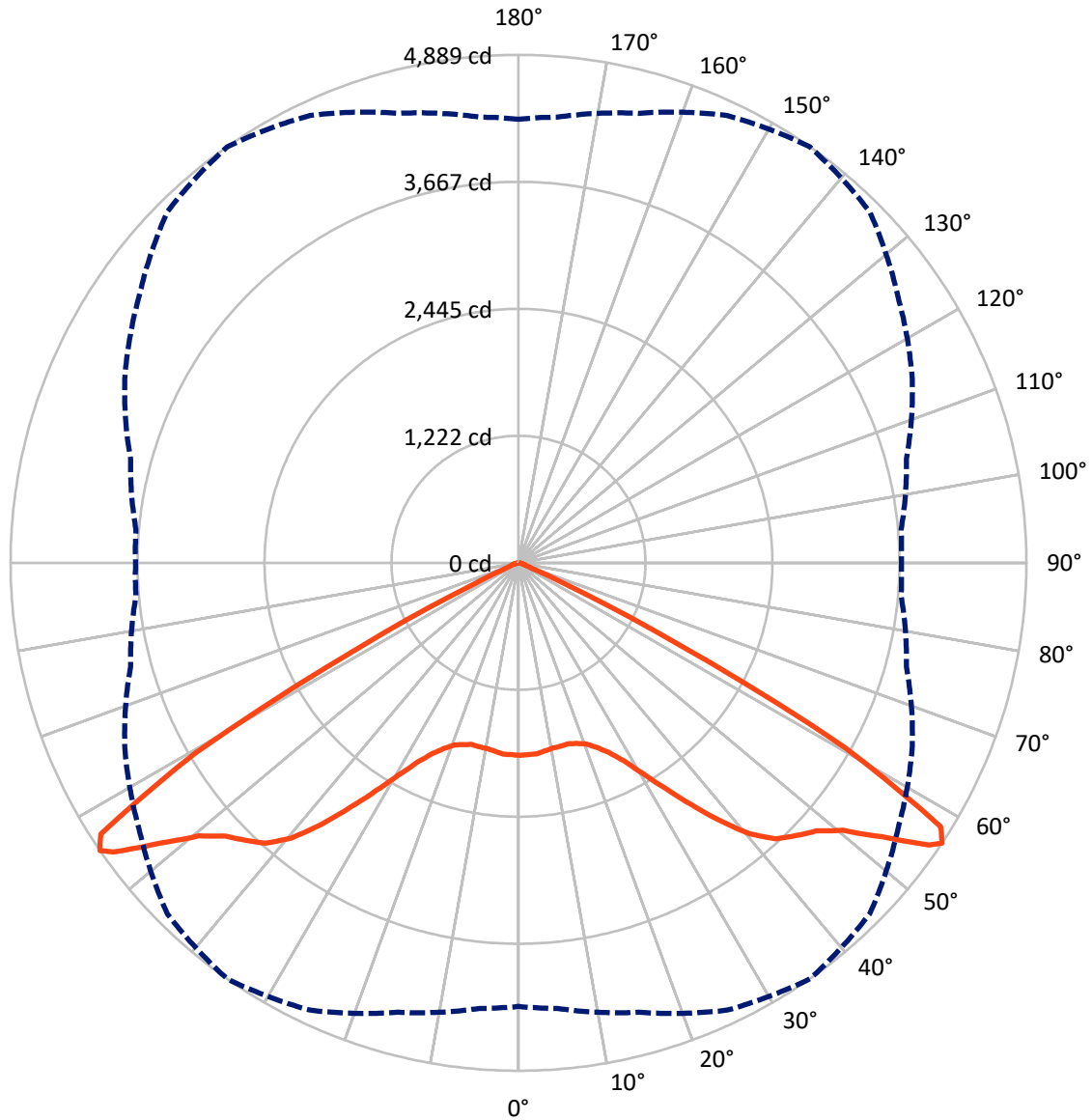
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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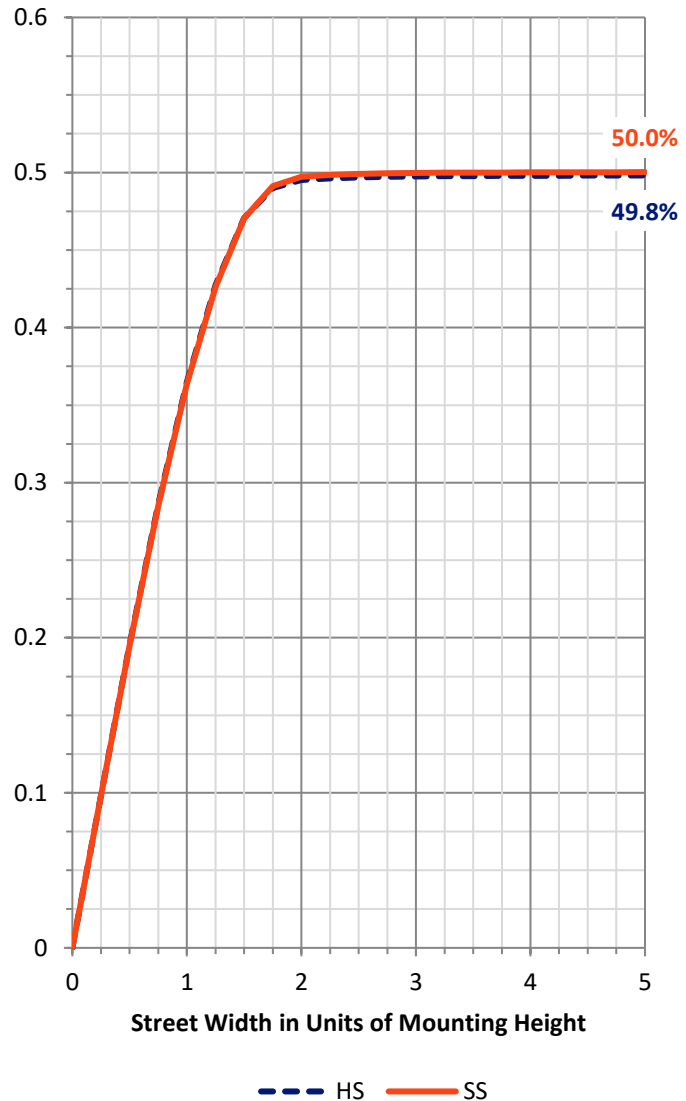
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5288.8	0.0	5288.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5288.8	0.0	5288.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	10577.5	0.0	10577.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	1.6
10°-20°	508.6	4.8
20°-30°	920.9	8.7
30°-40°	1707.7	16.1
40°-50°	2803.1	26.5
50°-60°	3611.2	34.1
60°-70°	795.9	7.5
70°-80°	46.2	0.4
80°-90°	9.7	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10577.5	100.0
0°-180°	10577.5	100.0

Coefficient of Utilization

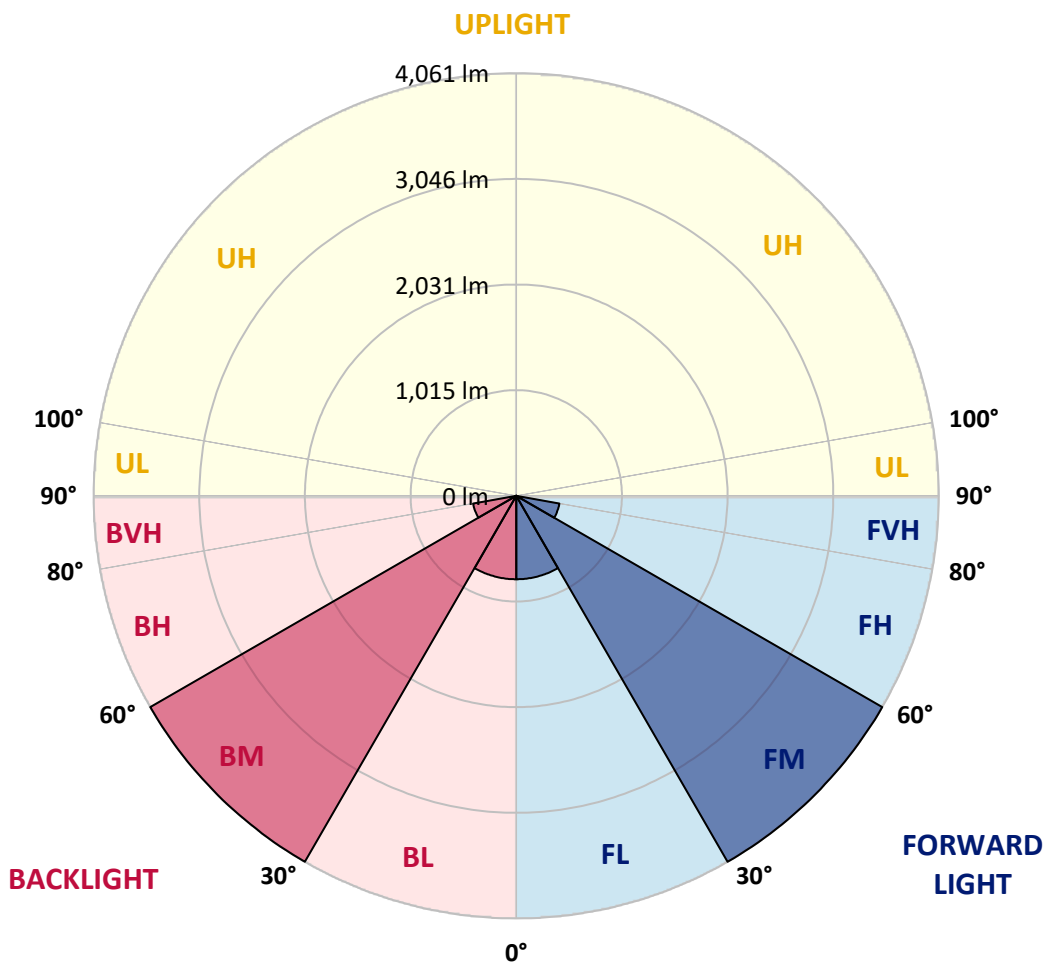


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	801.8	7.6			
FM (30°-60°)	4061.0	38.4			
FH (60°-80°)	421.0	4.0			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	801.8	7.6	B2/1000		
BM (30°-60°)	4061.0	38.4	B3/5000		
BH (60°-80°)	421.0	4.0	B1/500		G0/660
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4
2.5°	1857.3	1857.3	1859.2	1861.1	1847.6	1841.9	1843.8	1840.0	1838.1	1843.8	1843.8
5°	1851.5	1851.5	1845.8	1847.6	1847.6	1830.4	1830.4	1834.3	1834.3	1822.7	1818.9
7.5°	1836.1	1832.3	1824.6	1834.3	1828.5	1828.5	1815.1	1805.5	1801.7	1809.4	1801.7
10°	1803.6	1805.5	1813.2	1817.0	1813.2	1824.6	1801.7	1788.2	1774.8	1769.1	1769.1
12.5°	1788.2	1799.7	1788.2	1797.8	1811.2	1801.7	1788.2	1778.7	1759.5	1751.8	1751.8
15°	1786.3	1794.0	1797.8	1811.2	1805.5	1809.4	1782.5	1771.0	1742.3	1728.9	1723.1
17.5°	1784.4	1794.0	1799.7	1824.6	1828.5	1830.4	1809.4	1774.8	1749.9	1736.5	1723.1
20°	1805.5	1809.4	1820.9	1845.8	1861.1	1887.9	1849.6	1813.2	1759.5	1744.1	1738.4
22.5°	1832.3	1851.5	1863.0	1889.8	1930.1	1953.1	1903.2	1857.3	1801.7	1782.5	1759.5
25°	1918.6	1914.7	1933.9	1989.5	2022.1	2039.3	1999.1	1932.0	1859.2	1836.1	1840.0
27.5°	2025.9	2029.8	2047.0	2108.3	2156.2	2183.1	2135.2	2047.0	1976.1	1937.8	1933.9
30°	2165.9	2162.0	2181.1	2263.6	2349.9	2390.1	2305.8	2202.3	2133.3	2083.4	2094.9
32.5°	2313.5	2315.3	2369.0	2443.7	2583.7	2662.3	2526.2	2399.7	2296.1	2261.7	2244.4
35°	2531.9	2541.5	2583.7	2698.7	2853.9	2955.5	2806.0	2654.6	2535.7	2472.5	2480.2
37.5°	2802.2	2792.6	2863.5	2988.1	3151.0	3225.7	3099.3	2926.8	2806.0	2763.8	2790.7
40°	3089.6	3099.3	3135.7	3248.7	3430.8	3480.7	3292.8	3198.9	3093.5	3072.4	3105.0
42.5°	3377.2	3371.4	3398.2	3499.9	3632.1	3597.6	3486.4	3430.8	3356.1	3313.9	3358.0
45°	3588.0	3578.4	3628.3	3697.2	3745.2	3680.0	3630.1	3611.0	3572.7	3526.6	3566.9
47.5°	3793.1	3785.4	3833.3	3852.5	3856.4	3770.1	3779.7	3814.1	3718.3	3622.5	3668.5
50°	3967.5	3954.1	4013.5	4055.6	4046.1	3908.1	3942.6	3908.1	3758.6	3645.5	3628.3
52.5°	4258.8	4264.6	4327.8	4404.5	4381.5	4266.5	4216.7	4059.5	3867.9	3766.2	3706.8
55°	4442.8	4414.1	4523.3	4766.7	4793.6	4674.7	4454.3	4222.4	3934.9	3810.3	3795.0
56°	4270.3	4306.7	4479.2	4751.4	4889.4	4780.1	4460.0	4182.2	3865.9	3697.2	3685.7
57.5°	3831.4	3812.3	4046.1	4417.9	4793.6	4747.6	4302.9	3894.6	3526.6	3336.9	3313.9
60°	2384.3	2439.9	2645.0	3105.0	3607.1	3630.1	3189.3	2838.6	2409.2	2240.6	2280.8
62.5°	933.4	885.5	1013.9	1357.0	1702.0	1778.7	1611.9	1339.7	1100.2	933.4	921.9
65°	216.6	210.9	237.6	327.8	458.1	531.0	504.1	362.2	266.5	253.0	233.8
67.5°	122.7	122.7	116.9	116.9	128.4	136.1	130.4	128.4	134.1	139.9	138.0
70°	86.3	84.3	80.5	82.4	78.6	78.6	84.3	93.9	101.6	101.6	103.5
72.5°	51.8	51.8	51.8	57.5	57.5	57.5	63.3	70.9	72.8	70.9	69.0
75°	23.0	23.0	26.9	32.6	36.4	38.4	44.1	47.9	51.8	47.9	44.1
77.5°	5.7	5.7	9.6	13.4	17.2	21.1	28.7	34.5	36.4	34.5	28.7
80°	1.9	1.9	3.8	9.6	17.2	21.1	28.7	30.7	32.6	28.7	23.0
82.5°	1.9	1.9	3.8	9.6	13.4	17.2	23.0	26.9	28.7	24.9	23.0
85°	0.0	1.9	3.8	7.7	11.5	15.3	15.3	11.5	9.6	5.7	7.7
87.5°	0.0	0.0	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)